

ABSTRACT OF DISCLOSURE

In an alternator for use in an automobile, comprising brackets 70 for supporting a rotation shaft 6 at both sides of a rotor 1, being thermally connected to a stator 12 for supporting the stator 12, while one side of the rotor 1 is closed by the bracket 70, cooling water passages 15 provided in the bracket 70, a cooling fan 51 provided on the closed side of the rotor 1, and a cooling fin provided opposing to and in vicinity of the cooling fan 15, thereby enabling cool down of the stator and the rotor, effectively, with low noises, and thereby obtaining a high power output.